

STANDARD INSPECTION REPORT OF A GAS DISTRIBUTION OPERATOR RECORD AUDIT

Unless otherwise noted, all code references are to 49CFR Part 192.
If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

Operator: AMEREN ILLINOIS COMPANY	Operator ID#: 32513
Inspection Date(s): 3/1/2016, 3/2/2016, 3/3/2016	Man Days: 3
Inspection Unit: Springfield	
Location of Audit: Springfield	
Exit Meeting Contact: Bob Roth	
Inspection Type: Standard Inspection - Record Audit	
Pipeline Safety Representative(s): Jim Watts	
Company Representative to Receive Report: Michael Fuller	
Company Representative's Email Address: mfuller2@ameren.com	

Headquarters Address Information:	300 Liberty Peoria, IL 61602 Emergency Phone#: (800) 755-5000 Fax#:	
Official or Mayor's Name:	Ron Pate Phone#: (217) 424-6518 Email:	
Inspection Contact(s)	Title	Phone No.
Bob Roth	Superintendent Quality Assurance	

Gas System Operations	Status
Gas Transporter	Panhandle Eastern and ANR
Annual Report (Form 7100.1-1) reviewed for the year:	Not Checked
<u>General Comment:</u> <i>The annual report was not reviewed during this audit. It will be reviewed during the Ameren Training Pawnee Audit to be performed at a later date.</i>	
Unaccounted for Gas	Not Checked
<u>General Comment:</u> <i>This was not reviewed during the Springfield audit this will be reviewed during the Ameren Pawnee Audit to be performed at a later date.</i>	
Number of Services	Not Checked
<u>General Comment:</u>	

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<i>This was not reviewed during the Springfield audit this will be reviewed during the Ameren Pawnee Audit to be performed at a later date.</i>		
Miles of Main	Not Checked	
<u>General Comment:</u> <i>This was not reviewed during the Springfield audit this will be reviewed during the Ameren Pawnee Audit to be performed at a later date.</i>		
Is the operator maintaining documentation verifying their Maximum Allowable Operating Pressure(s)? (MAOP)	Satisfactory	
<u>General Comment:</u> <i>Transmission pipeline MAOP documentation is retained by Ameren Engineering located at the Decatur Plaza. MAOPs for the Springfield distribution system are maintained in the Engineering Office for Springfield.</i>		
Operating Pressure (Feeder)	100, 175, 230, 350	
Operating Pressure (Town)	5,10,18,28, 30,40,45	
Operating Pressure (Other)	Not Applicable	
<u>General Comment:</u> <i>There are no other types of operating pressures.</i>		
MAOP (Feeder)	230, 250, 350, 500	
MAOP (Town)	10,14,20,25,30,40,43,50,60	
MAOP (Other)	Not Applicable	
<u>General Comment:</u> <i>There are no other types of MAOP's.</i>		
Does the operator have any transmission pipelines?	Yes	
<u>General Comment:</u> <i>There is transmission piping in the Springfield Service Area.</i>		
Regulatory Reporting Records		Status
[191.5]	Were Telephonic Notices of Incidents reported to the NRC (800-424-8802)?	Not Applicable
<u>General Comment:</u> <i>No reportable incidents occurred in the Springfield Service Area in 2014.</i>		
[191.9(a)]	Was a DOT Incident Report Form F7100.1 submitted within 30 days after detection of an incident?	Not Applicable
<u>General Comment:</u> <i>No reportable incidents occurred in the Springfield Service Area in 2014.</i>		
[191.9(b)]	Were any supplemental incident reports	Not Applicable

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	submitted when deemed necessary?	
General Comment: <i>No reportable incidents occurred in the Springfield Service Area in 2014.</i>		
Did the operator have any plastic pipe failures in the past calendar year?		Not Applicable
General Comment: <i>There were no plastic pipe failures that required analysis in 2014.</i>		
Did the operator take action to mitigate safety concerns relating to the failure of the PE or pipeline components?		Not Applicable
General Comment: <i>There were no plastic pipe failures that required analysis in 2014.</i>		
[191.23(a)]	Did the operator report Safety Related Conditions?	Not Applicable
General Comment: <i>No Safety Related Conditions occurred in the Springfield Service Area in 2014.</i>		
[191.25]	Did the Operator file a Safety Related Condition Report within 5 working days of determination, but not later than 10 working days after discovery?	Not Applicable
General Comment: <i>No Safety Related Conditions occurred in the Springfield Service Area in 2014.</i>		
[192.16(c)]	Customer Notification: Has the operator notified each new customer within 90 days about the customer's responsibility regarding buried piping, however, operators of a master meter may continuously post a general notice in a permanent location?	Satisfactory
General Comment: <i>New customers are sent the required customer notification information by the Ameren ICE Team located in Decatur Illinois within 3 working days of signing up for Ameren gas service.</i>		
TEST REQUIREMENTS		Status
[192.517(a)][192.505,192.507,192.511(c)]	Are pressure test records being maintained for piping operating above 100 psig?	Satisfactory
General Comment: <i>Review of farm tap installations installed in 2014, indicate they were pressure tested as required.</i>		
[192.517(b)][192.511,192.509,192.513]	Are pressure test records being maintained for at least 5 years on piping operating below 100 psig?	Satisfactory

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<u>General Comment:</u>		
Pressure test records are retained for the life of the system.		
[192.603(b)][192.725]	Were service lines temporarily disconnected from the main properly tested prior to reconnection?	Satisfactory
<u>General Comment:</u>		
Review of services that were temporarily disconnected during work performed or due to third party damage in 2014 indicate they were tested from the point of disconnect to the riser.		
UPRATING		Status
<u>Category Comment:</u>		
No uprating was performed in the Springfield Service Area in 2014.		
[192.555][192.555]	Has the operator maintained documentation of uprating activities when uprating a pipe to a pressure that will produce a hoop stress of 30% or more SMYS?	Not Applicable
[192.557][192.557]	Has the operator maintained documentation of uprating activities when uprating a pipe to a pressure that will produce a hoop stress of less than 30% SMYS?	Not Applicable
OPERATIONS		Status
[192.603(b)][192.605(a)]	Has the operator conducted a review of the Operations and Maintenance Manual once per yr/15 months?	Not Checked
<u>General Comment:</u>		
Determination as to when the annual review of the O&M was performed is reviewed during the Ameren Illinois Training Center audit to be performed at a later date. This was not confirmed during this audit.		
Has the operator conducted a review of the Operator Qualification Plan once per yr/15 months?		Not Checked
<u>General Comment:</u>		
Auditing of the 2014 OQ plan is completed during a separate audit performed at the Ameren Illinois Training Center in Pawnee, Illinois audit and was not reviewed as part of this audit.		
[192.603(b)][192.605(b)(3)]	Are construction records, maps, and operating history available to operating personnel?	Satisfactory
<u>General Comment:</u>		
Construction records and maps are available to field personnel using their mobile data terminals while in the field. Any other information is available through the office personnel.		
[192.603(b)][192.605(b)(8)]	Has the operator periodically reviewed personnel's work to determine the effectiveness of normal O&M procedures when deficiencies are found?	Satisfactory

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<u>General Comment:</u> <i>This is met by random audits are performed by Ameren Quality Assurance field reviews and Supervisory field reviews.</i>		
CONTINUING SURVEILLANCE RECORDS		Status
[192.603(b)][192.613(a)]	Has the operator reviewed continuing surveillance records for class location changes, failures, leak history, corrosion, changes in cathodic protection, and other unusual operating and maintenance conditions?	Satisfactory
<u>General Comment:</u> <i>Review of documentation for patrols, corrosion, leakage, failures and other unusual operating and maintenance conditions indicate corrective actions were taken where necessary to retain system safety and to meet the continuing surveillance requirements.</i>		
[192.491][192.489]	Does the operator have records verifying if exposed cast iron was examined for evidence of graphitization and if necessary what appropriate action was taken concerning graphitization?	Not Applicable
<u>General Comment:</u> <i>There is no known cast iron piping remaining in the Springfield Service Area.</i>		
[192.603(b)][192.755]	Does the operator have surveillance records of cast iron pipelines, including appropriate action resulting from tracking circumferential cracking failures, study of leak history, or any other unusual operating and maintenance conditions?	Not Applicable
<u>General Comment:</u> <i>There is no known cast iron piping remaining in the Springfield Service Area.</i>		
[192.603(b)][192.753(a)]	Is each cast iron caulked bell and spigot joint that is subject to a pressure of more than 25 (psig.) sealed as required?	Not Applicable
<u>General Comment:</u> <i>There is no known cast iron piping remaining in the Springfield Service Area.</i>		
[192.603(b)][192.753(b)]	Is each cast iron caulked bell and spigot joint that is subject to a pressure of 25 (psig.) or less and is exposed for any reason sealed as required?	Not Applicable
<u>General Comment:</u> <i>There is no known cast iron piping remaining in the Springfield Service Area.</i>		
DAMAGE PREVENTION RECORDS		Status
<u>Category Comment:</u> <i>Damage prevention records were not reviewed during the Springfield audit. Damage prevention documentation is reviewed during a separate audit conducted at the Ameren Training Center located in Pawnee, Illinois. Review of documentation for work performed by Ameren in 2014 indicate they requested JULIE's prior to conducting excavation by requesting locates and waiting the required time intervals prior to starting excavation activities.</i>		

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[192.603(b)][191.11(a)]	Did the operator track the number of damages per 1000 locate requests for the previous years?	Not Checked
Has the number of damages increased or decreased from prior year?		Not Checked
[192.603(b)][192.617]	Does the operator track records of accidents due to excavation damage to ensure causes of failures are addressed to minimize the recurrence?	Not Checked
[192.603(b)][192.614(c)(3)]	Does the operator provide documentation pertaining to notification of excavation, marking, positive response, and the availability and use of the one call system?	Not Checked
Does the operator have a Quality Assurance Program in place for monitoring the locating and marking of facilities?		Not Checked
Do pipeline operators include performance measures in facility locating contracts?		Not Checked
[IL ADM. CO.265.100(b)(1)]	Was third party damage to mains involving a release of gas reported to ICC JULIE Enforcement? http://www.icc.illinois.gov/julie/	Not Checked
Has the Operator adopted applicable sections of the Common Ground Alliance Best Practices?		Not Checked
Were Common Ground Alliance Best Practices discussed with the Operator?		Not Checked
EMERGENCY PLANS		Status
[192.603(b)][192.615(b)(1)]	Are supervisors, responsible for emergency action, furnished copies of the latest edition of the Emergency Plan?	Satisfactory
<u>General Comment:</u> Supervisors and personnel are provided access to the emergency plan via mobile data terminals.		
[192.603(b)][192.615(b)(2)]	Has the operator maintained documentation that the appropriate operating personnel have received training to assure they are knowledgeable of emergency procedures and that the training was effective?	Satisfactory
<u>General Comment:</u> The emergency plan review training was held in the Springfield Service Area on January 16, 2014.		
[192.603(b)][192.615(b)(3)]	Has the operator maintained documentation of employee activity reviews to determine whether the procedures were effectively followed in each emergency?	Not Applicable
<u>General Comment:</u> No reviews were required to be conducted in the Springfield service area in 2014 due to issues with procedures being followed during an emergency.		

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[192.603(b)][192.615(c)]	Has the operator maintained documentation that the operator established and maintained liaison with appropriate fire, police and other public officials?	Not Checked
<u>General Comment:</u> <i>This was not reviewed during the Springfield audit. This is reviewed during the Public Awareness Audit performed as a separate audit conducted later at the Ameren Training Center in Pawnee, Illinois.</i>		
[192.603(b)][192.615(a)(3)]	Did the review of emergency response time intervals regarding odor/leak complaint documentation indicate adequate emergency response intervals were achieved?	Satisfactory
<u>General Comment:</u> <i>There were no instances in the Springfield Service Area where response times exceeded 60 minutes.</i>		
ODORIZATION OF GAS		Status
[192.603(b)][192.625(f)]	Has the operator maintained documentation of odorant concentration level testing using an instrument?	Satisfactory
<u>General Comment:</u> <i>Review of odorometer test results documented in Gas Compliance System for 2014 indicate they were completed on a monthly basis as required by company procedures and indicate adequate levels of odorant were being maintained.</i>		
[192.603(b)][192.625(e)]	Has the operator maintained documentation of odorizer tank levels?	Satisfactory
<u>General Comment:</u> <i>Review of tank level inspections maintained in the Gas Compliance System for 2014 indicate the inspections were conducted as required and indicated odorant usage.</i>		
[192.603(b)][192.625(f)(1)]	Are master meter operators receiving written verification of odorant concentration levels from their gas supplier?	Not Applicable
<u>General Comment:</u> <i>Ameren is not a Master Meter Operator. This requirement is not applicable.</i>		
[192.603(b)][192.625(f)(2)]	Has the master meter operator maintained documentation of sniff tests performed as required by this section?	Not Applicable
<u>General Comment:</u> <i>Ameren is not a Master Meter Operator. This requirement is not applicable.</i>		
PATROLLING & LEAKAGE SURVEY		Status
[192.603(b)][192.721(b)(1)]	Is the operator patrolling business districts at a minimum of 4 per year/4 1/2 months?	Satisfactory
<u>General Comment:</u>		

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<i>Review of documentation for business district surveys conducted in 2014 indicate they were completed within the required intervals.</i>		
[192.603(b)][192.721(b)(2)]	Is the operator patrolling outside business districts at a minimum of 2 per year/7 1/2 months?	Satisfactory
<u>General Comment:</u> <i>Review of bi-annual patrols performed in 2014 indicate they were completed as required and actions were taken to correct any issues identified.</i>		
[192.603(b)][192.723(b)(1)]	Is the operator performing leakage surveys in business districts at a minimum of 1 per year/ 15 months? If the operator has inside meter sets that meet this criterion then were those surveyed?	Satisfactory
<u>General Comment:</u> <i>Review of business district leak survey documentation for 2014 indicate they were conducted as required and leaks appeared to be classified as required.</i>		
[192.603(b)][192.723(b)(2)]	Is the operator performing leakage surveys outside a business district at a minimum of every 5 years/63 months? Is the operator performing leakage surveys on cathodically unprotected pipelines at a minimum of every 3 years/39 months? If the operator has inside meter sets that meet this criterion then were those surveyed? If the operator has yard lines then are those being surveyed?	Satisfactory
<u>General Comment:</u> <i>Review of residential leak survey documentation for 2014 indicate they were conducted as required on the four year interval as required by the Ameren Waiver for atmospheric corrosion.</i>		
YARD LINES - RESIDENTIAL		Status
[220 ILCS 2.2.03]	Has the operator designated and documented the location of all services where the meter is located more than 3 feet away from the wall of a residence?	Satisfactory
<u>General Comment:</u> <i>Ameren maintains a listing of all yard lines in the Springfield service area.</i>		
[192.463,220 ILCS 2.2.03][220 ILCS 2.2.03]	Has the operator determined if cathodic protection is required on these services?	Not Applicable
<u>General Comment:</u> <i>All yard lines are considered as unprotected piping and are surveyed on a three year interval. The previous yard line survey was performed in 2011 with the most recent in 10/2014.</i>		
[192.723(b)(1),192.723(b)(2)][220 ILCS 2.2.03]	After the determination of the cathodic protection requirements, has the operator surveyed each line within the required leakage survey intervals?	Not Applicable

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<u>General Comment:</u> <i>All yard lines are listed as unprotected piping.</i>		
ABANDONMENT or DEACTIVATION of FACILITIES PROCEDURES		Status
[192.603(b)][192.727(b)]	Did the operator maintain documentation demonstrating that each pipeline abandoned in place was disconnected from all sources and supplies of gas, and purged of gas?	Satisfactory
<u>General Comment:</u> <i>Review of DOJM work orders and service replacements completed in 2014 indicate piping that was disconnected was abandoned in place as required.</i>		
[192.603(b)][192.727(c)]	Did the operator maintain documentation demonstrating that each inactive pipeline that is not being maintained under this part was disconnected from all sources and supplies of gas; purged of gas?	Satisfactory
<u>General Comment:</u> <i>Review of work orders completed in 2014 indicate, when mains were abandoned in place they were purged as required and were capped. Services were not usually purged due to low volumes of gas present but were capped as required.</i>		
[192.603(b)][192.727(d)]	Did the operator maintain documentation demonstrating that whenever service to a customer was discontinued access to gas was either; locked, prevented by a mechanical fitting, or disconnected from the gas supply and open pipe ends sealed?	Satisfactory
<u>General Comment:</u> <i>Review of completed work orders for 2014 indicate when a new service is installed the valve is either locked in the closed position or the valve is closed and the outlet connection on the meter bar is plugged to prevent unauthorized usage until the customer connection is completed. Review of service orders in 2014 indicate whenever gas service was terminated to a customer who previously had service, the valve was locked in the closed position to terminate service.</i>		
[192.603(b)][192.727(e)]	Did the operator maintain documentation when air was used for purging that a combustible mixture was not present after purging?	Satisfactory
<u>General Comment:</u> <i>Review of completed work order documentation for 2014 indicate testing was performed during purging and ensured a combustible mixture was not present after the purge.</i>		
[192.727(g)][192.727(g)]	Did the operator maintain documentation for each abandoned onshore pipeline facility that crosses over, under or through a commercially navigable waterway?	Not Applicable
<u>General Comment:</u> <i>Ameren Springfield has no piping in their system that crosses a navigable waterway.</i>		
PRESSURE LIMITING AND REGULATION		Status

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[192.603(b)][192.739(a)]	Is the operator inspecting and testing the pressure limiting and regulating stations at a minimum of 1 per year/15 months?	Satisfactory
<u>General Comment:</u> <i>Review of the 2014 pressure regulating and limiting station inspections maintained in the Gas Compliance System for Springfield indicate they were completed as required in 2014.</i>		
[192.603(b)][192.743(a)]	Is the operator inspecting pressure limiting and regulating stations for adequate capacity at a minimum of 1 per year/15 months?	Satisfactory
<u>General Comment:</u> <i>Review of the 2014 engineering evaluations performed on the pressure regulating and limiting stations and maintained in the Gas Compliance System for Springfield, indicate they were completed as required and were adequate from the standpoint of capacity.</i>		
[192.603(b)][192.743(b)]	If the operator used calculations to determine sufficient capacity, were the calculation reviews documented at a minimum of 1 per year/15 months?	Satisfactory
<u>General Comment:</u> <i>Review of the 2014 engineering evaluations performed on the pressure regulating and limiting stations and maintained in the Gas Compliance System for Springfield, indicate they were completed as required and were adequate from the standpoint of capacity.</i>		
[192.603(b)][192.741(a), 192.741(b)]	Is each distribution system supplied by more than one district pressure regulating station, or where required by the operator on a system supplied by a single regulating station, equipped with telemetering or recording pressure gauges to indicate the gas pressure in the district?	Not Checked
<u>General Comment:</u> <i>This was not reviewed during the Springfield audit due to this information being retained by Gas Control. This documentation is reviewed during the Gas Control audit performed separately from the Springfield audit.</i>		
[192.603(b)][192.741(c)]	If there were indications of abnormally high- or low-pressure, were actions taken to correct any unsatisfactory operating conditions?	Not Checked
<u>General Comment:</u> <i>This was not reviewed during the Springfield audit due to this information being retained by Ameren Gas Control. This documentation is reviewed during the Gas Control audit performed separately from the Springfield audit. Ameren currently utilizes electronic pressure recorders to monitor for periods of high or low pressure and Gas Control receives the alarms sent by the pressure recorders and initiates the responses to these alarms.</i>		
[192.603(b)][192.743(a), 192.743(b), 192.195(b)(2)]	Is overpressure protection provided by the supplier pipeline downstream of the take point?	Yes
<u>General Comment:</u> <i>There are locations where overpressure protection is provided by the supplier in the Springfield area. Ameren is working with those suppliers to allow for Ameren to take over pressure regulation or install reliefs to protect their system if the operator is not willing to provide the necessary documentation indicating they are responsible for providing overpressure protection for Ameren. This is a multi-year plan that has not yet been completed.</i>		
[192.603(b)][192.743(a)]	If Yes, does the operator have documentation to verify that these devices have adequate	Satisfactory

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	capacity?	
<u>General Comment:</u> <i>The locations where Ameren is having a hard time getting the required documentation are the areas where they are installing reliefs or taking over the pressure regulation.</i>		
VALVE MAINTENANCE		Status
[192.603(b)][192.747(a),192.747(b)]	Did the operator inspect and maintain distribution valves necessary for the safe operation of the system at a minimum of 1 per year/15 months?	Satisfactory
<u>General Comment:</u> <i>Review of the valve inspections recorded in the Gas Compliance System indicate the inspections were performed as required in 2014.</i>		
[192.603(b)][192.749(a)]	Did the operator inspect and maintain vaults > 200 cubic feet at a minimum of 1 per year/15 months?	Not Applicable
<u>General Comment:</u> <i>There were no vaults in the Springfield system that meet the 200 cubic foot requirements in 2014.</i>		
Investigation Of Failures		Status
[192.603(b)][192.617]	Did the operator experience accidents or failures requiring analysis?	Not Applicable
<u>General Comment:</u> <i>There were no accidents or failures in 2014 that required analysis.</i>		
WELDING OF STEEL PIPE		Status
<u>Category Comment:</u> <i>Ameren currently has qualified welding procedures that are retained in their welding manual. The documentation for the individuals who were qualified to weld in 2014 was not reviewed during the Springfield audit. This documentation is reviewed during a separate audit performed at the Ameren Training Center.</i>		
[192.603(b)][192.225(b)]	Does the operator have documentation for their qualified welding procedure?	Not Checked
[192.603(b)][192.227,192.229]	Does the operator have documentation of welder qualification as required?	Not Checked
[192.807]	Does the operator have documentation of welder OQ records?	Not Checked
[192.709][192.243(b)(2)]	Does the operator have documentation of NDT personnel qualification as required?	Not Checked
[192.709][192.243(f)]	Does the operator have documentation of NDT testing performed?	Not Checked
JOINING OF MATERIAL OTHER THAN WELDING		Status
<u>Category Comment:</u>		

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Joining qualification records for 2014 were not reviewed during this audit. They are to be reviewed during the Ameren Training Center Audit conducted in Pawnee, Illinois at a later date.

[192.603(b)][192.285]	Are persons making joints with plastic pipe qualified?	Not Applicable
[192.603(b)][192.287]	Are persons inspecting plastic pipe joints qualified?	Not Applicable
[192.603(b)][192.283]	Are qualified joining procedures for plastic pipe in place?	Not Applicable

CORROSION CONTROL RECORDS

Status

[192.491(a)][192.491(a)]	Has the operator maintained maps or records of cathodically protected piping, cathodic protection facilities, galvanic anodes, and neighboring structures bonded to the cathodic protection system?	Satisfactory
[192.491][192.459]	Has the operator maintained documentation of an examination when buried pipe was exposed?	Satisfactory

General Comment:

Review of buried pipe exam forms for 2014 indicate piping was inspected when exposed and corrective actions were taken when low pipe to soils were detected or corrosion was observed. The low readings were also reported to the corrosion department for further review or rereads to ensure the actions taken were adequate to achieve protective levels.

[192.491][192.465(a)]	Has the operator maintained documentation of annual pipe-to-soil monitoring performed at a minimum of 1 per yr/15 months and/or isolated services or short sections of main less than 100 feet at a minimum of 10% annually?	Satisfactory
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General Comment:

Review of the corrosion monitoring maintained in the Gas Compliance System indicates the annual test points and the 10 year isolated segments for the Springfield Service Area were completed as required in 2014.

[192.491][192.465(b)]	Has the operator maintained documentation of rectifier or other impressed current power sources inspections at a minimum of 6 per year/ 2 1/2 months?	Satisfactory
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General Comment:

Review of the rectifier inspections for 2014 maintained in the Gas Compliance System, indicates the installations within the Springfield Service Area were inspected as required.

[192.491][192.465(c)]	Has the operator maintained documentation of each critical interference bond, reverse current switch, diode, etc. inspections at a minimum of 6 per year/ 2 1/2 months and/or non-critical interference bond inspections at a minimum of 1 per year/15 months?	Not Applicable
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General Comment:

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<i>Review of corrosion inspections tracked in the Gas Compliance System indicate there were no critical or non-critical bonds in the Springfield System in 2014.</i>		
[192.491][192.465(d)]	Has the operator taken prompt remedial actions to correct any deficiencies indicated by the monitoring?	Satisfactory
<u>General Comment:</u> <i>Staff reviewed the corrective actions taken for the low potential levels identified during the testing performed in 2014 and indicate corrective actions were taken to remediate the low potentials observed during the 2014 monitoring.</i>		
[192.491][192.465(e)]	Has the operator maintained documentation of unprotected pipeline surveys, inspections, or tests at a minimum of 3 years/39 months?	Not Applicable
<u>General Comment:</u> <i>There is no known unprotected piping other than Yard Lines located in the Springfield system that require surveys to be conducted on a three year interval.</i>		
[192.491][192.467(a),192.467(c),192.467(d)]	Has the operator maintained documentation of inspections or tests for electrical isolation at casings?	Satisfactory
<u>General Comment:</u> <i>Review of the 2014 casing monitoring inspections maintained in the Gas Compliance System for the Springfield Service Area indicate the inspections were completed as required.</i>		
[192.491][192.469]	Does the operator have a sufficient number of test stations or other contact points for electrical measurement to determine the adequacy of cathodic protection?	Satisfactory
<u>General Comment:</u> <i>Review of the corrosion monitoring points for the Springfield Service Area indicate they have an adequate number of points to conduct measurement of the levels of protection being applied by the cathodic protections systems.</i>		
[192.491][192.471]	Has the operator maintained documentation of corrective actions taken when a test lead is no longer electrically conductive?	Not Applicable
<u>General Comment:</u> <i>Review of testing performed in 2014 for the Springfield area, indicates no issues were identified with the test leads utilized for monitoring of cathodic protection systems.</i>		
[192.491][192.473(b)]	Has the operator maintained documentation of inspections or tests to assure their cathodic protection system is not affecting adjacent underground metallic structures?	Satisfactory
<u>General Comment:</u> <i>The results of the testing performed during 2014 for the Springfield Area indicate no issues with their cathodic protection systems affecting adjacent underground metallic structures.</i>		
[192.491][192.475(a)]	Has the operator maintained documentation of investigations or steps taken to minimize internal corrosion due to transportation of corrosive gas?	Not Applicable

STANDARD INSPECTION REPORT OF A GAS DISTRIBUTION OPERATOR RECORD AUDIT

Unless otherwise noted, all code references are to 49CFR Part 192.
If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

<u>General Comment:</u>		
<i>The Ameren system in Springfield does not transport gas with corrosive properties. They are transporting pipeline quality gas.</i>		
[192.491][192.475(b)]	Has the operator maintained documentation of internal surface inspections performed when pipe is removed for any reason?	Satisfactory
<u>General Comment:</u>		
<i>Review of leak repair documentation indicates internal inspections were performed where possible during abandonments and piping replacements were piping was removed allowing for internal inspections. No indications of internal corrosion were identified in the inspections performed in 2014.</i>		
[192.491][192.477]	Has the operator maintained documentation of internal corrosion coupon monitoring at a minimum of 2 per year/ 7 1/2 months?	Not Applicable
<u>General Comment:</u>		
<i>The Ameren system in Springfield does not transport gas with corrosive properties. They are transporting pipeline quality gas. Due to this no coupon monitoring is performed.</i>		
[192.491][192.481]	Has the operator maintained documentation of atmospheric corrosion control monitoring at a minimum of 1 per 3 years/ 39 months?	Satisfactory
<u>General Comment:</u>		
<i>Ameren has a waiver to conduct the atmospheric corrosion surveys on a four year interval and are conducted in conjunction with their leakage surveys. Review of the leakage surveys maintained in the Gas Compliance System indicate they were conducted as required in 2014.</i>		
[192.491][192.479]	Has the operator maintained documentation of corrective action where atmospheric corrosion was discovered?	Satisfactory
<u>General Comment:</u>		
<i>Staff's review of corrective actions taken due to findings of the atmospheric corrosion survey, indicate they were corrected within the allowable time limits.</i>		
[192.491][192.483(a), 192.483(b), 192.483(c)]	Has the operator maintained documentation demonstrating that pipe removed due to external corrosion has been repaired or replaced with pipe that was coated and cathodically protected?	Satisfactory
<u>General Comment:</u>		
<i>Review of leak repair documentation for 2014 indicates piping removed due to external corrosion was repaired by replacing with new piping or had a pumpkin installed over the corroded area.</i>		
TRAINING - 83 IL ADM. CODE 520		Status
[520.10(a) (1)]	Has the operator maintained documentation demonstrating that personnel have received adequate training?	Not Checked
<u>General Comment:</u>		
<i>The 2014 Training records were not reviewed during this audit. These will be reviewed at the Ameren Training Center at a later date.</i>		
[520.10(a) (2)]	Do training records include verbal instruction and/or on the job training for each job	Not Checked

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If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

	classification?	
<u>General Comment:</u> <i>The 2014 Training records were not reviewed during this audit. These will be reviewed at the Ameren Training Center at a later date.</i>		
[520.10(b)]	Has the municipal operator maintained documentation demonstrating that personnel have received adequate training?	Not Applicable
<u>General Comment:</u> <i>Ameren is not a municipal operator. This is not applicable.</i>		
[520.10(a)(5)]	Are procedures periodically updated to include new materials, new methods of operation and installation, and changes in general procedures?	Satisfactory
<u>General Comment:</u> <i>In 2014 Ameren did provide training on new and revised procedures as they are submitted to the field personnel. Quality Assessment personnel conduct presentations with the affected work groups on the new or revised procedures.</i>		

STANDARD INSPECTION REPORT OF A GAS DISTRIBUTION OPERATOR RECORD AUDIT

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If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.